TIMES MICROWAVE SYSTEMS
An Amphenol Company

Clarity™ Series

ROHS

50 GHz Test Cables

Applications :

- 5G development
- Research & Development Labs
- Bench VNA's and analyzers
- High Volume Production Test
- RF Module Testing

When everything is important, Times new Clarity™ Series is the clear choice. Industry-leading performance and unparalleled value.

- Broad Frequency Response
- Rugged & Durable
- Predictable over Temperature
- Solid Connector Retention
- RF Stable with Flexure
- Consistent between Batches
- Long Flex Life
- Ergonomically Designed
- Attractive Appearence

Ordering Information:

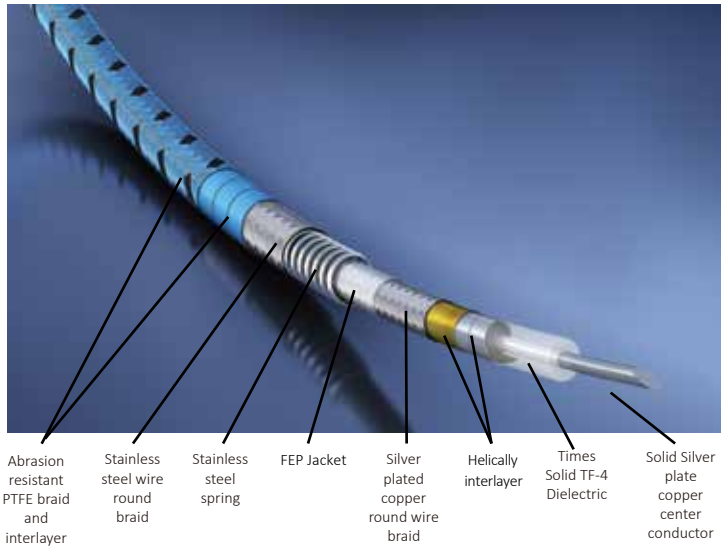
Clarity Series
Steel Armored
50 GHz

CLS50-XXXXXX-XX.XXX

Every half foot or quarter meter
(1.5ft or 0.5m is the shortest)
Example: -01.50F = 1.5ft

F= feet
M=meters

24M = 2.4mm male
24F = 2.4mm female
2RF = 2.4mm ruggedized female



Connectors & Strain Relief :

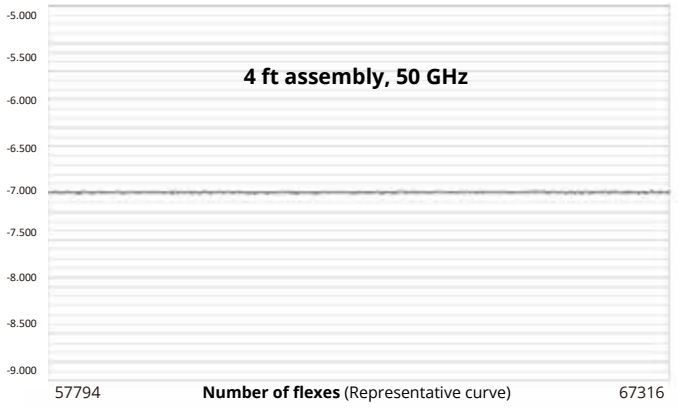
- User friendly stainless steel SureGrip™ knurled coupling nut
- Unique, elliptical-shaped, Sure-Grip™ injected molded strain relief

Mechanical Specifications		
Dimensions	in	mm
Armored Diameter: armor/strain relief	0.29 / 0.50	7.95 / 12.70
Min bend radius, armored (max flex life)	1.5 (3.0)	38 (76)
Crushing (armored version)	200 lbs/lin.in.	
Flex life[1]	50,000	
Temperature Range	-67°/+ 257°F	-55°/+125°C

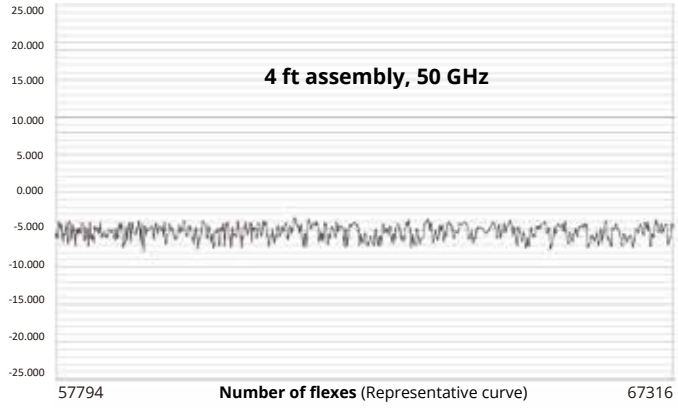
Electrical Specifications (50GHz)				
Impedance	50 Ohms			
Velocity of Propagation	70%			
Shielding Effectiveness	> 100 dB			
Capacitance	29pf/ft (95pf/m)			
VSWR (typ/max)	1.30:1 / 1.40:1			
Phase Stability (degrees)* typical	+/- 4.0			
Amplitude Stability (dB)* typical	+/- 0.08			
Attenuation, max	@77°F (25°C)	18 GHz	40 GHz	50 GHz
	dB/ft	0.93	1.50	1.72
	(dB/m)	(3.06)	(4.93)	(5.64)
Attenuation (per 100ft) at any frequency: 0.5556*√f(MHz) + 0.0008*f(MHz)				

1. As tested using Times' flex testing methods. 4ft long cable. Longer cables can have more total instability. Assumes test equipment is calibrated every 8 hours. New cables can have a break in period of several hundred flexes before optimum stability occurs. Contact your Times representative or the factory for a copy of this test procedure and/or actual test results.

Amplitude Stability while in motion



Phase Stability while in motion



Always :

- Inspect interfaces before every mate. Clean frequently
- Gently start the coupling nut. Fully thread & tighten w/fingers first
- Use a calibrated torque wrench
- Cap connectors and protect the assembly when not in use

Never :

- Force the cable beyond the recommended minimum bend radius
- Force two connectors. If any resistance is felt STOP and examine
- Mate connectors that have non-concentric contacts
- Insert foreign or dirty objects into the interface

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